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Twice a year as part of their subscription to Electrical & Electronics Abstracts, subscribers receive cumulative indexes for the periods January-June and July-December. Each index is in two parts – a Subject Index, and an Author Index which comprises personal and corporate author indexes, and indexes to conferences, book titles, and bibliographies. The List of Journals abstracted by INSPEC is also included with the July-December issue of the Author index, while the supplement to that List is included with the January-June issue. Cumulative indexes for earlier years are also available: for details please see the inside back cover.

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This lists in alphabetical order all authors of papers abstracted in Electrical & Electronics Abstracts in the six-month period covered by the index. The title of the paper is included with the entry for the first-named author. The abstract number of the papers is referred to in the form 12345, i.e. abstract 12345 of the year covered by the index.

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This index refers to those articles containing a significant list of references or bibliography on the subjects listed. Each entry gives the subject matter and the number of citations.

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This index lists conferences for which published proceedings have been abstracted in the six-month period. Conferences reported in journals are also included in this list. The abstract relating to the conference itself is indicated by (*introductory abstract*). When papers from a conference appear in more than one publication there will be a corresponding number of entries in the index.

Corporate author index

This is an index to those items where a corporate organisation rather than an individual person is the agent primarily responsible for the publication. Such publications typically include reports of industrial firms or of government departments or research establishments.

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The logo for INSPEC, consisting of the word "inspec" in a stylized, lowercase, sans-serif font. The letters are bold and have a slightly irregular, hand-drawn appearance. The "i" and "n" are connected, as are the "e" and "s". The "p" and "c" are also connected. The logo is centered at the bottom of the page.

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- NSLS Department, Brookhaven Nat. Lab., Upton, NY, USA**
- Performance and upgrades of the NSLS storage rings and photon sources. 33555
- OECD, Paris, France**
- Convergence between communications technologies: case studies from North America and Western Europe, 28. 39128
- Information technology standards: the economic dimension, 25. 31996
- Telecommunications equipment: changing markets and trade structures, ICCP 24. 25159
- Telecommunications type approval: policies and procedures for market access, 27. 32296
- Phys.-Tech. Bundesanstalt, Braunschweig, Germany**
- Intercomparison of force standard machines of the National Institute of Standards and Technology, USA, and the Physikalisch-Technische Bundesanstalt, Germany, PTB-MA-20. 19675
- Mass scale up to 5 t. Requirements, realization and application, PTB-MA-14e. 26172
- Realization of the PTB's mass scale from 1 mg to 10 kg, PTB-MA-21e. 26164
- Results of the PEP'87 round robin calibration of reference solar cells and modules - Final report, PTB-Opt-31. 20764
- Tech. Res. Centre Finland, Lab. Electr. Autom. Eng., Espoo, Finland**
- Analysis of knowledge-based system applications for power system operations, 73. 14257
- Univ. California, Comput. Sci. Dept., Los Angeles, CA, USA**
- High-performance adaptive routing in multicomputers using dynamic virtual circuits, CSD-900026. 12030
- On-line arithmetic algorithms for efficient implementation, CSD-900029. 9427
- Univ. Illinois at Urbana-Champaign, IL, USA**
- Architecture for call processing, UIUCDCS-R-91-1692. 18707
- Dynamic load distribution on point-to-point multicomputer networks, UIUCDCS-R-91-1709. 18863
- Fasolt: a program for feedback-driven datapath optimization, UIUCDCS-R-90-1645. 2555
- Non-blocking packet switching with shift-register rings, UIUCDCS-R-91-1711. 18654
- Performance-driven chip floorplanning and global routing, UIUCDCS-R-91-1689. 16892
- Schedulability analysis of resource access control protocols in real-time systems, UIUCDCS-R-91-1705. 18708
- Univ. Lyon, France**
- Caracterisation et modification de l'interface Nb/Cu de cavites supraconductrices par faisceaux d'ions (Characterisation and modification of an Nb/Cu interface of a superconducting cavity by ion irradiation), LYCEN-T-9011. 19733

SUPPLEMENT TO LIST OF JOURNALS

The INSPEC List of Journals and other Serial Sources is published in full in the July-December Indexes. The following update to the List of Journals includes new titles and title changes over the period January-June 1992.

ACM Trans. Softw. Eng. Methodol. (USA)

ACM Transactions on Software Engineering and Methodology Association for Computing Machinery, 1515 Broadway, New York, NY 10016, USA.

Adv. Compos. Mater. (Netherlands)

Advanced Composite Materials VSP BV, P.O.Box 346, 3700 AH Zeist, Netherlands.

Adv. Eng. Softw. Workstn. (UK)

Advances in Engineering Software and Workstations [Formerly: *Adv. Softw. Eng. Workstn. (UK)*] Published in association with Computational Mechanics Publications and International Society for Boundary Elements by Elsevier Science Publishers Ltd., Crown House, Linton Road, Barking, Essex IG11 8JU, UK.

Analog Integr. Circuits Signal Process. (Netherlands)

Analog Integrated Circuits and Signal Processing Kluwer Academic Publishers Group, P.O.Box 322, 3300 AH Dordrecht, Netherlands.

Ann. Chim., Sci. Mater. (France)

Annales de Chimie (Science des Matériaux) Masson Editeur, 120 Boulevard St. Germain, F-75280 Paris, France.

Asia-Pac. Eng. J. A. Electr. Eng. (Singapore)

Asia-Pacific Engineering Journal, Part A (Electrical Engineering) World Scientific Publishing Co. Pte. Ltd., Farrer Road, P.O.Box 128, Singapore 9128, Singapore.

ASU Newsl. (Sweden)

ASU Newsletter [Formerly: *SIMULA Newsl. (UK)*] ASU Secretariat: Henry Islo, Royal Institute of Technology, Department of Manufacturing Systems, S-100 44 Stockholm, Sweden.

Bull. Precis. Intell. Lab. (Japan)

Bulletin of Precision and Intelligence Laboratory [Formerly: *Bull. Res. Lab. Precis. Mach. Electron. (Japan)*] Tokyo Institute of Technology, Nagatsuta, Midori-ku, Yokohama 227, Japan.

Chemometr. Intell. Lab. Syst., Lab. Inf. Manage. (Netherlands)

Chemometrics and Intelligent Laboratory Systems: Laboratory Information Management Elsevier Science Publishers B.V., P.O.Box 211, 1000 AE Amsterdam, Netherlands.

Commun. Netw. (UK)

Communications Networks [Formerly: *Commun. Mag. (UK)*] International Thomson Publishing Ltd., Swallow Place, 249-259 Regent Street, London W1R 7AA, UK.

Compos. Eng. (UK)

Composites Engineering Pergamon Press plc, Headington Hill Hall, Oxford OX3 0BW, UK.

Comput. Complexity (Switzerland)

Computational Complexity Birkhauser Verlag, P.O. Box 133, CH-4010 Basel, Switzerland.

Comput. Educ. J. (USA)

Computers in Education Journal [Formerly: *CoED (USA)*] Computers in Education Division of ASEE, Port Royal Square, Box 68, Port Royal, VA 22535, USA.

Comput. Stat. (Germany)

Computational Statistics [Formerly: *Comput. Stat. Q. (West Germany)*] Physica-Verlag GmbH, Tiergartenstrasse 17, 6900 Heidelberg, Germany.

Controls Syst. (USA)

Controls & Systems [Formerly: *Automation (USA)*] Penton Publishing Inc., 1100 Superior Avenue, Cleveland, OH 44114-2543, USA.

Data Commun. Int. (USA)

Data Communications International [Formerly: *Data Commun. (USA)*] McGraw-Hill Inc., McGraw-Hill Building, 1221 Avenue of the Americas, New York, NY 10020, USA.

Data Resour. Manage. (USA)

Data Resource Management Auerbach Publishers, Inc., 210 South Street, Boston, MA, USA, USA.

DesignNet (USA)

DesignNet [Formerly: *MCN (USA)*] Ariel Communications Inc., P.O.Box 203550, Austin, TX 78720-3550, USA.

Diam. Relat. Mater. (Netherlands)

Diamond and Related Materials Elsevier Science Publishers B.V., P.O.Box 211, 1000 AE Amsterdam, Netherlands.

Digit. Media (USA)

Digital Media Seybold Publications Inc., P.O.Box 644, Media, PA 19063, USA.

Digit. Signal Process. (USA)

Digital Signal Processing Academic Press Inc., 1250 Sixth Avenue, San Diego, CA 92101, USA.

Dist. Heat. Int. (Germany)

District Heating International [Formerly: *Fernwaerme Int. (West Germany)*] Verlags- und Wirtschaftsgesellschaft der Elektrizitätswerke mbH, VWEW, Stresemannallee 30, W-6000 Frankfurt am Main 70, Germany.

Doga Turk. J. Eng. Environ. Sci. (Turkey)

Doga Turkish Journal of Engineering and Environmental Sciences [Formerly: *Doga Turk Muehendis. Cevre Bilimleri Derg. (Turkey)*] Scientific and Technical Research Council of Turkey, Atatürk Bulvarı 221, Kavaklıdere-Ankara, Turkey.

Doga Turk. J. Phys. (Turkey)

Doga Turkish Journal of Physics [Formerly: *Doga Turk Fiz. Astrofiz. Derg. (Turkey)*] Scientific and Technical Research Council of Turkey (TUBITAK), P.O.Box 5, Kizilay, Ankara 06420, Turkey.

Electr. Power Int. (USA)

Electric Power International [Formerly: *Power Int. Ed. (USA)*] McGraw-Hill Inc., 11 West 19th Street, Second Floor, New York, NY 10011, USA.

Electron. Netw., Res. Appl. Policy (USA)

Electronic Networking: Research, Applications and Policy Meckler Corp., 11 Ferry Lane West, Westport, CT 06880, USA.

Elektro (Czechoslovakia)

Elektro Editorial address: Pod vodarenskou vezi 4, 182 08 Praha 8, Czechoslovakia.
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Energetika (Lithuania)

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Energietechnik (Netherlands)

Energietechnik [Formerly: *Elektrotechnik (Netherlands)*] Editorial address: Redactie Energietechnik, Postbus 9035, 6800 ET Arnhem, Netherlands.

Eng. Sci. Educ. J. (UK)

Engineering Science and Education Journal Institution of Electrical Engineers, Savoy Place, London WC2R 0BL, UK.

Eur. Electro-Opt. (USA)

European Electro-Optics, USA.

Health Phys. (USA)

Health Physics [Formerly: *Health Phys. (UK)*] Williams & Wilkins, 428 East Preston Street, Baltimore, MD 21202, USA.

Hum. Mov. Sci. (Netherlands)

Human Movement Science Elsevier Science Publishers (North-Holland), P.O.Box 103, 1000 AC Amsterdam, Netherlands.

IEEE Tans. Circuits Syst. II, Analog Digit. Signal Process. (USA)

IEEE Transactions on Circuits and Systems II: Analog and Digital Signal Processing Institute of Electrical and Electronics Engineers, 345 East 47th Street, New York, NY 10017, USA.
Supersedes in part: IEEE Transactions on Circuits and Systems

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IEEE Transactions on Circuits and Systems I: Fundamental Theory and Applications Institute of Electrical and Electronics Engineers, 345 East 47th Street, New York, NY 10017, USA.

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IEICE Trans. Commun. (Japan)

IEICE Transactions on Communications IEICE, Kikai-Shinko-Kaikan Bldg., 5-8 Shibakoen 3-chome, Minato-ku, Tokyo 105, Japan.

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Information Management & Technology [Formerly: *Inf. Media Technol. (UK)*] Cimtech Ltd., Hatfield Polytechnic, College Lane, Hatfield, Herts. AL10 9AD, UK.

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Information Systems Management [Formerly: *J. Inf. Syst. Manage. (USA)*] Auerbach Publishers, 210 South Street, Boston, MA 0211, USA.

INFOdoc (Germany)

INFOdoc [Formerly: *Mikrodok (West Germany)*] FBO-Fachverlag fur Büro und Organisationstechnik GmbH, Postfach 316, Hermannstrasse 2, W-7570 Baden-Baden, Germany.

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Informatica Lithuanian Academy of Sciences, Institute of Mathematics and Cybernetics, 232600 Vilnius, Akademijos St. 4, Lithuania.

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International Defense Review [Formerly: *Int. Def. Rev. (Switzerland)*] Jane's Information Group, Sentinel House, 163 Brighton Road, Coulsdon, Surrey CR5 2NH, UK.

Int. J. Bio-Med. Comput. (Ireland)

International Journal of Bio-Medical Computing [Formerly: *Int. J. Bio-Med. Comput. (Netherlands)*] Elsevier Scientific Publishers Ireland Ltd., P.O.Box 85, Limerick, Ireland.

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International Journal of Human Factors in Manufacturing John Wiley & Sons Inc., 605 Third Avenue, New York, NY 10158, USA.

Int. J. Microw. Millim.-Wave Comput.-Aided Eng. (UK)

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Int. J. Netw. Manage. (UK)

International Journal of Network Management John Wiley & Sons Ltd., Baffins Lane, Chichester, West Sussex PO19 1UD, UK.

Int. J. Nonlinear Opt. Phys. (Singapore)

International Journal of Nonlinear Optical Physics World Scientific Publishing Co. Pte. Ltd., Farrer Road, P.O.Box 128, Singapore 128, Singapore.

Int. J. Prod. Econ. (Netherlands)

International Journal of Production Economics [Formerly: *Eng. Costs Prod. Econ. (Netherlands)*] Elsevier Science Publishers B.V., P.O.Box 1991, 1000 BZ Amsterdam, Netherlands.

Int. J. Syst. Autom., Res. Appl. (USA)

International Journal of Systems Automation: Research & Applications Ablex Publishing Corp., 355 Chestnut Street, Norwood, NJ 07648, USA.

Intell. Softw. Strateg. (USA)

Intelligent Software Strategies Cutter Information Corp., 37 Broadway, Arlington, MA 02174, USA.

ISIS (USA)

ISIS University of Chicago Press, P.O.Box 37005, Chicago, IL 60637, USA.

Not covered during the period Sept. 1980 to Dec. 1990

J. Alloys Compd. (Switzerland)

Journal of Alloys and Compounds [Formerly: *J. Less-Common Met. (Switzerland)*] Elsevier Sequoia S.A., P.O.Box 564, 1001 Lausanne 1, Switzerland.

J. Appl. Geophys. (Netherlands)

Journal of Applied Geophysics [Formerly: *Geoexploration (Netherlands)*] Elsevier Science Publishers B.V., P.O.Box 330, 1000 AH Amsterdam, Netherlands.

J. Des. Manuf. (UK)

Journal of Design and Manufacturing Chapman & Hall, 2-6 Boundary Row, London SE1 8HN, UK.

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Journal of Educational Multimedia and Hypermedia Association for the Advancement of Computing in Education (AACE), P.O.Box 2966, Charlottesville, VA 22902, USA.

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Journal of Occupational and Organizational Psychology [Formerly: *J. Occup. Psychol. (UK)*] British Psychological Society, St. Andrew's House, 48 Princess Road East, Leicester LE1 7DR, UK.

J. Strateg. Inf. Syst. (UK)

Journal of Strategic Information Systems Butterworth-Heinemann Ltd., Linacre House, Jordan Hill, Oxford OX2 8DP, UK.

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Kn. Inf. (Czechoslovakia)

Knížnice a Informacie [Formerly: *Kn. Ved. Inf. (Czechoslovakia)*] Vydava Matica Slovenska, 036 52 Martin, ul. Mudronova 26, Czechoslovakia.

Law Pract. Manage. (USA)

Law Practice Management American Bar Association, Section of Law Practice Management, 750 N. Lake Shore Drive, Chicago, IL 60611, USA.

Libr. Sci. Slant Doc. Inf. Stud. (India)

Library Science with a Slant to Documentation and Information Studies [Formerly: *Libr. Sci. Slant Doc. (India)*] Sarada Ranganathan Endowment for Library Science, 432 10th Cross, 18th Main Road, J.P. Nagar II Phase, Bangalore 560 078, India.

Maxim Eng. J. (UK)

Maxim Engineering Journal Maxim Integrated Products (U.K.) Ltd., 21 C Horseshoe Park, Pangbourne, Reading RG8 7JW, UK.

Meccanica (Netherlands)

Meccanica [Formerly: *Meccanica (Italy)*] Kluwer Academic Publishers Group, P.O.Box 322, 3300 AH Dordrecht, Netherlands.

Nanostruct. Mater. (USA)

Nanostructured Materials Pergamon Press Inc., 395 Saw Mill River Road, Elmsford, NY 10523, USA.

NDT & E Int. (UK)

NDT&E International [Formerly: *NDT Int. (UK)*] Butterworth-Heinemann Ltd., Linacre House, Jordan Hill, Oxford OX2 8DP, UK.

Netw. Manage. Eur. (USA)

Networking Management Europe PennWell Publishing Co., One Technology Park Drive, P.O.Box 988, Westford, MA 01886, USA.

Nucl. Phys. B (Netherlands)

Nuclear Physics B Elsevier Science Publishers, P.O.Box 103, 1000 AC Amsterdam, Netherlands.
From July 1982 to Dec. 1991 published under the title Nuclear Physics B (Particle Physics)

Off. Buyword (UK)

Office Buyword [Formerly: *Off. Equip. Index (UK)*] EMAP MacLaren, MacLaren House, Scarbrook House, Croydon CR9 1QH, UK.

Off. Technol. Manage. (USA)

Office Technology Management [Formerly: *Today's Off. (USA)*] FM Business Publications Inc., Business/Industrial Division, 1225 Franklin Avenue, Garden City, NY 11530, USA.

Offset Print. Reprod. (UK)

Offset Printing & Reproduction Maclean Hunter Ltd., Maclean Hunter House, Chalk Lane, Cockfosters Road, Barnet, Herts. EN4 0BU, UK.

Open Syst. Mag. (UK)

Open Systems Magazine [Formerly: *Open Syst. (UK)*] Reed Business Publishing Group, Quadrant House, The Quadrant, Sutton, Surrey SM2 5AS, UK.

Opt. Mater. (Netherlands)

Optical Materials Elsevier Science Publishers B.V., P.O.Box 211, 1000 AE Amsterdam, Netherlands.

Parallel Process. Lett. (Singapore)

Parallel Processing Letters World Scientific Publishing Co. Pte. Ltd., Farrer Road, P.O.Box 128, Singapore 9128, Singapore.

Parallelogram (UK)

Parallelogram [Formerly: *Parallelogram Int. (UK)*] Parallel Publishing Ltd., 32 Fitzroy Square, London W1P 5HH, UK.

Perwill Update (UK)

Perwill Update Perwill Group, 13a Market Square, Alton, Hants. GU34 1UR, UK.

Philips J. Res. (UK)

Philips Journal of Research [Formerly: *Philips J. Res. (Netherlands)*] Elsevier Science Publishers Ltd., Crown House, Linton Road, Barking, Essex IG11 8JU, UK.

Phys. Medica (Switzerland)

Physica Medica GESA, Piazza Montte Ceneri 13, CH-6901 Lugano, Switzerland.

Process. Adv. Mater. (UK)

Processing of Advanced Materials Chapman & Hall, 2-6 Boundary Row, London SE1 8HN, UK.

Publ. Fac. Electr. Eng. Univ. Belgrade Ser., Autom. Control (Yugoslavia)

Publications of the Faculty of Electrical Engineering, University of Belgrade, Series: Automatic Control P.O.Box 108, 11001 Belgrade, Yugoslavia.

Scand. J. Inf. Syst. (Denmark)

Scandinavian Journal of Information Systems University of Aalborg, Information Systems Group, Department of Mathematics and Computer Science, Institute of Electronic Systems, Frederik Bajers Vej 7, DK-9220 Aalborg O, Denmark.

Sci. Comput. Autom. (USA)

Scientific Computing & Automation Elsevier Communications, 301 Gibraltar Drive, P.O.Box 650, Morris Plains, NJ 07950-0650, USA.

Sci. Softw. (USA)

Science Software John Wiley & Sons Inc., 605 Third Avenue, New York, NY 10158, USA.

Sensors (USA)

Sensors Helmers Publishing Inc., 174 Concord Street, P.O.Box 874, Peterborough, NH 03458-0874, USA.

Sol. Energy Mater. Sol. Cells (Netherlands)

Solar Energy Materials and Solar Cells North-Holland, Elsevier Science Publishers B.V., P.O.Box 1991, 1000 BZ Amsterdam, Netherlands.
Formed by merger of Solar Energy Materials, and Solar Cells

Stat. Comput. (UK)

Statistics and Computing Chapman & Hall, 2-6 Boundary Row, London, SE1 8HN, UK.

Struct. Chem. (USA)

Structural Chemistry VCH Publishers Inc., 303 N.W. 12th Avenue, Deerfield Beach, FL 33442-1788, UK.

Surv. Math. Ind. (Austria)

Surveys on Mathematics for Industry Springer-Verlag Wien, Sachsenplatz 4-6, P.O.Box 89, A-1201 Wien, Austria.

Survive (UK)

Survive Pace Publishing Ltd., 1 West Street, Clayton, Manchester M11 4EF, UK.

Train. Dev. (USA)

Training & Development [Formerly: *Train. Dev. J. (USA)*] American Society for Training and Development Inc., 1640 King Street, Box 1443, Alexandria, VA 22313-2043, USA.

Transp. Res. A, Policy Pract. (UK)

Transportation Research, Part A (Policy and Practice) [Formerly: *Transp. Res. A, Gen. (UK)*] Pergamon Press plc, Headington Hill Hall, Oxford OX3 0BW, UK.

Ukr. J. Phys. (UK)

Ukrainian Journal of Physics [Translation of: *Ukr. Fiz. Zh. (Ukraine)*] V.E. Riechansky Science Publishing Co., 7 Meadow Walk, Great Abington, Cambridge CB1 6AZ, UK.

Util. Policies (UK)

Utilities Policies Butterworth-Heinemann Ltd., Linacre House, Jordan Hill, Oxford OX2 8DP, UK.

Vib. Spectrosc. (Netherlands)

Vibrational Spectroscopy Elsevier Science Publishers B.V., P.O.Box 330, 1000 AH Amsterdam, Netherlands.

Wall Str. Technol. (USA)

Wall Street & Technology [Formerly: *Wall Str. Comput. Rev. (USA)*] Miller Freeman Inc., 1515 Broadway, New York, NY 10036, USA.

Wiss. Z. Tech. Univ. Chemnitz (Germany)

Wissenschaftliche Zeitschrift der Technischen Universität Chemnitz [Formerly: *Wiss. Z. Tech. Univ. Karl-Marx-Stadt (East Germany)*] PSF 964, O-9010 Chemnitz, Germany.

Your Complete Off. (Australia)

Your Complete Office Practical Marketing Group, 1st Floor, 48 Frenchs Road, P.O.Box 105, Willoughby, NSW 2068, Australia.

Z. Phys. Chem. (Germany)

Zeitschrift für Physikalische Chemie R. Oldenbourg Verlag, Postfach 80 13 60, W-8000 München 80, Germany.
Formed by amalgamation of the two separate German editions after unification

ZEV+DET Glasers Ann. Eisenb.tech. (Germany)

ZEV+DET Glasers Annalen, Die Eisenbahntechnik [Formerly: *Z. Eisenb.wes. Verk.tech. (West Germany)*] Georg Siemens Verlag-sbuchhandlung, Lutzowstrasse 105/106, W-1000 Berlin 30, Germany.

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ě	R	Ё ё	sht	B	Ъ ъ
é	R	Э э	t	R S B	Т т
ê	R B	Ђ ђ	t'	R B	ТЬ ть
f	R S B	Ф ф	t'	S	Ъ ъ
g	R S B	Г г	th	R	Ө ө
i	R S B	И и	ts	R S B	Ц ц
ī	R	І і	t-s	R S B	ТС тс
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j	S	Ј ј	ū	B	Ъ ъ
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k	R S B	К к	v	R S B	В в
kh	R S B	Х х	y	S	Ј ј
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